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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,068	07/13/2006	Parry John Guilford	PEBL-01006US1	3673
69986 09482010 BORSON LAW GROUP, PC 1078 CAROL LANE, #200 LAFAYETTE, CA 94549			EXAMINER	
			HARRIS, ALANA M	
			ART UNIT	PAPER NUMBER
			1643	•
			MAIL DATE	DELIVERY MODE
			03/18/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/565.068 GUILFORD ET AL. Office Action Summary Examiner Art Unit Alana M. Harris, Ph.D. 1643 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 November 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 and 8-30 is/are pending in the application. 4a) Of the above claim(s) 3-6.13-18 and 22-24 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1, 2, 8-12, 19-21 and 25-30 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) T Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments and Amendments

1. Claims 1-6 and 8-30 are pending.

Claims 3-6, 13-18 and 22-24, drawn to non-elected inventions are withdrawn from examination.

Claims 1, 2, 19-21 and 30 have been amended.

Claims 1, 2, 8-12, 19-21 and 25-30 are examined on the merits.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Withdrawn Objection

Claim Objection

3. Claim 2 is no longer objected to because the two terms, *phosphlipase* A2 and transforming growth B induced *protin* have been properly spelled in the amendment submitted November 25, 2009.

Withdrawn Rejections

Claim Rejections - 35 USC § 112

 The rejection of claims 1, 2, 8-12, 19-21 and 25-30 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is

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withdrawn in light of Applicants' amendment to claims 1, 19 and 20 submitted November 25, 2009.

Claim Rejections - 35 USC § 102

- 5. The rejection of claims 1, 2, 8-12, 19-21, 25-27, 29 and 30 under 35 U.S.C. 102(e) as being anticipated by Mack et al./ U.S. Patent Application Publication number US 2004/0076955 A1 (filed July 2, 2002) is withdrawn in light of Applicants' amendment to claims including SEQ ID NO: 108.
- 6. The rejection of claims 1, 19 and 27 under 35 U.S.C. 102(a) as being anticipated by Utsunomiya et al. (Clinical Cancer Research 8: 2591-2594, August 2002) is withdrawn in light of Applicants' amendment to claims including SEQ ID NO: 108.

Claim Rejections - 35 USC § 103

7. The rejection of claims 1, 2, 8-12, 19-21 and 25-30 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication number US 2004/0076955 A1 (filed July 2, 2002), and further in view of U.S. Patent Application Publication number US 2006/0019256 A1 (effective filling date June 9, 2003) is withdrawn in light of Applicants' amendment to claims including SEO ID NO: 108.

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8. The rejection of claims 1, 2, 8-12, 19-21 and 25-30 under 35
U.S.C. 103(a) as being unpatentable over WO 03/057916 A2 (filed January 9, 2003), and further in view of U.S. Patent Application Publication number US 2004/0076955 A1 (filed July 2, 2002) and U.S. Patent Application Publication number US 2006/0019256 A1 (effective filing date June 9, 2003) is withdrawn in light of Applicants' amendment to claims including SEQ ID NO: 108.

New Grounds and Maintained Grounds of Rejection Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 1, 2, 8-12, 19-21 and 25-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- a. In claims 1, 19 and 20 it is not clear if SEQ ID NO: 108 is assigned or designated as the cystatin SN (CST1) protein or the CST1 peptide. Applicants should clarify.

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Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351 (a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 12. Claims 1, 2, 8-12, 19-21, 25-27 and 30 are rejected under 35
 U.S.C. 102(e) as being anticipated by Afar et al./ U.S. Patent Application
 Publication number US 003/0232350 A1 (filed November 13, 2002). The
 publication discloses a method of immunodiagnosing stomach cancer
 comprising identifying and comparing diagnostic markers listed in Table 2A
 including cystatin SN (SEQ ID NO: 108), see page 36, line 60; page 88, line 33;
 the sequence alignment following the instant rejection; page 10, section 0067;
 and page 19, section 0158. The diagnostic markers are detected in biological
 samples include blood, plasma, serum and stool, see page 14, section 0096.
 Diagnostic assays implemented include standard immunoassays, such as ELISAs
 using antibodies capable of detecting polypeptides and peptides, see page 19,
 sections 0157, 0158; page 20, section 0161; and page 22, section 0175. A

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number of markers are evaluated for differential expression between normal and cancerous tissues, see page 10, section 0067-page 11, section 0071. Examples of additional diagnostic markers to be assessed are kallikrein 10 (KLK10), page 36, line 71; matrix matallopreinase 12 (MMP12), page 38, line 28; and phospholipase A2, page 88, line 3.

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RESULT 7
US-10-295-027-400
; Sequence 400, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynne, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Hevezi, Feter A.;
APPLICANT: Mack, David H.;
APPLICANT: Morray, Richard
; APPLICANT: Watson, Susan R.;
APPLICANT: Eos Blotechnology, Inc.;
ITILE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
ITILE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
: NUMBER OF SEC ID NOS: 1386
: SOFTWARE: Patentin Ver. 2.1
; SEO ID NO 400
    LENGTH: 141
    TYPE: PRT
     ORGANISM: Homo sapiens
US-10-295-027-400
  Query Match 100.0%; Score 91; DB 4; Length 141; Best Local Similarity 100.0%; Fred. No. 6e-06; Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
                 1 FAISEYNKATKDDYYRR 17
               50 FAISEYNKATKDDYYRR 66
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Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

14. Claims 1, 2, 8-12, 19-21 and 25-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Afar et al./ U.S. Patent Application Publication number US 003/0232350 A1 (filed November 13, 2002), and further in view of Mack et al./ U.S. Patent Application Publication number US 2004/0076955 A1 (filed July 2, 2002) and Clarke et al./ U.S. Patent Application Publication number US 2006/0019256 A1 (effective filing date June 9, 2003). The teachings of Afar have been set forth in the preceding 102(e) rejection. This publication does not teach measuring overexpression of the multitude of markers set forth in dependent claims 2, 21 and 28-30.

However, Mack teaches a method of diagnosing several solid cancers comprising identifying and comparing diagnostic markers listed in Tables 1A-13 including cystatin SN in many types of samples using diagnostic assays, see page 2, sections 0026-0030; page 3, section 0054; page 11, section 0108; page 21, section 0209; page 108, Table 4a; and page 112, Table 6A, Pkey number 409757. Examples of additional diagnostic markers to be assessed are olfactomedin, (OLFM1), page 35; SPARC-like 1, page 36; matrix

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metalloproteinase 12 (MMP12), inhibin (INHBA), pages 45, 55 and 58; lysyl oxidase, page 54; lumican (LUM), page 126; thrombospondin 2 (THBS2), page 134: TGFB inducible early growth response (page 9A); kallikrein 11 (page 150); aldican (page 154); and chondroitin sulfate proteoglycan 2 (page 167). Moreover, Clark teaches characterizing and diagnosing cancer by assessing several markers, serine or cysteine proteinase inhibitor clade B (SERPINB5), secreted acidic cysteine-rich protein (SPARC) see page 12, lines 2 and the 25th line from the bottom of the page and serine or cysteine proteinase inhibitor clade H (SERPINH1), see page 13, line 16. It would have been prima facie obvious to one of ordinary skill in the art at the time the claimed invention was made to include these cancer markers designated in Mack and Clarke for gastric cancer diagnosis. One of ordinary skill in the art would have been motivated to use these particular markers because the secondary references teach these markers' upregulated expression is consistent with solid tumors. such as gastrointestinal cancer, see Clarke page 5, section 0050.

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Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

16. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Alana M. Harris, Ph.D. whose telephone number is (571)272-0831. The Examiner works a *flexible schedule*, however she can normally be reached between the hours of 7:30 am to 6:30 pm, Monday-Saturday, with alternate Fridays off.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Larry R. Helms, Ph.D. can be reached on (571) 272-

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0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alana M. Harris, Ph.D. 11 March 2010

/Alana M. Harris, Ph.D./

Primary Examiner, Art Unit 1643